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PATENT ABSTRACTS OF JAPAN

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CORP**

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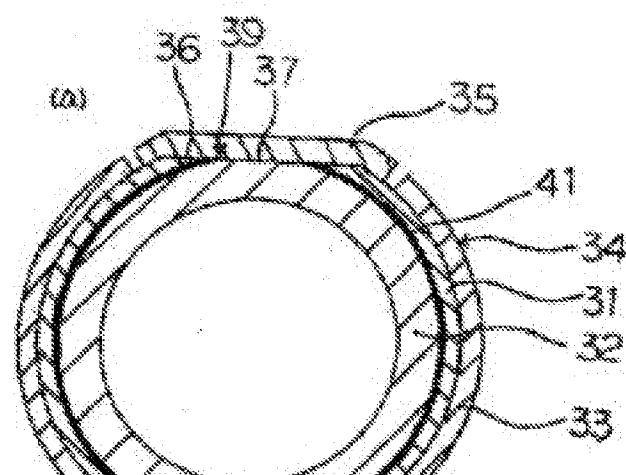
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(72)Inventor :

**NISHIHARA
MASAHITO
SHIGEHISA
TAKASHI
YAMASHITA
SHOJI****(54) SOLID ELECTROLYTE FUEL CELL AND ITS
MANUFACTURING METHOD**

(57)Abstract:

PROBLEM TO BE
SOLVED: To provide
a cell of a solid
electrolyte fuel cell,
capable of providing
high output density at
early stage and
keeping high output
density over a long
time, and to provide
the manufacturing



method thereof.

SOLUTION: The cell of the solid electrolyte fuel cell is manufactured, in such a way that a solid electrolyte 31 whose main component is ZrO_2 and a fuel

electrode 33 are stacked on the surface of an air electrode 32, comprising a perovskite type composite oxide containing La and Mn, and the air electrode 32 and the solid electrolyte 31 are sintered simultaneously. A diffusion preventing layer 41 comprising an oxide of Y, Zr, and Ce is formed between the solid electrolyte 31 and the air electrode 32.

